

CERTIFICATE OF ELECTRONIC TRANSMISSION 37 C.F.R. § 1.8	
<p>I hereby certify that this declaration is being electronically filed with the United States Patent and Trademark Office via EFS-Web on the date below:</p> <hr/> <div style="display: flex; justify-content: space-between; align-items: center;"> April 28, 2008 Date  Steven L. Highlander </div>	

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
 Marvin J. FRITZLER

Serial No.: 10/541,938

Filed: May 15, 2006

For: MONOCLONAL ANTIBODIES TO RNA
 BINDING PROTEIN GW182

Group Art Unit: 1642

Examiner: Bao Thuy L. Nguyen

Atty. Dkt. No.: UNTI:046US

Confirmation No.: 1641

DECLARATION OF MARVIN J. FRITZLER UNDER 37 C.F.R. §1.132

Commissioner for Patents
 PO Box 1450
 Alexandria, VA 22313-1450

I, Marvin J. Fritzler, do declare that:

1. I am a citizen of Canada residing at Calgary, Alberta. I currently hold the position of professor at University of Calgary. A copy of my *curriculum vitae* is attached.

2. I am an author of Eystathioy *et al.*, Mol. Cell. Biol. 13:1338-1351 (2002), which was published on-line February 22, 2002.

3. The remaining authors of Eystathioy *et al.* (2002) – Edward Chan, Scott Tenenbaum, Jack Keene, Kevin Griffith, and Theophany Eystathioy – though making a contribution sufficient to merit authorship on this publication, did not contribute in an inventive capacity to the subject matter described therein. Their contributions are described below.

4. Edward Chan collaborator assisted in manuscript preparation.

5. Scott Tenenbaum performed various experiments using the RNA array technique.

6. Jack Keene also performed various experiments using the RNA array technique.

7. Kevin Griffith performed early studies on serum and library screens.

8. Theophany Eystathioy performed various laboratory work and analysis of data.

9. I declare that all statements made herein of my own knowledge are true, and that all statements of my own belief are believed to be true, and further that these statements were made with the knowledge that willful false statements are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code.

March 26, 2008

Date



Marvin J. Fritzler

CURRICULUM VITAE
MARVIN JACOB FRITZLER

April 23, 2008

I. BIOGRAPHICAL DATA

Marvin Jacob Fritzler
49 Stratford Place SW
Calgary, Alberta T3H 1H7

Citizenship: Canadian
Born: Vulcan, Alberta, November 22, 1943.

Tel: (403) 240-1879
email: fritzler@ucalgary.ca
Fax: (403) 283-5666
Internet: <http://www.mitogen.ca>

Present Rank: Professor of Medicine
Departments: Medicine and Medical Biochemistry
Faculty of Medicine
The University of Calgary

Present position: Arthritis Society Chair
Chair: Board, Alberta Science & Research Authority

II. ACADEMIC RECORD:

Ph.D. Cell Biology, University of Calgary, 1971
M.D. Faculty of Medicine, University of Calgary, 1974

i. Undergraduate:

B.Sc. Department of Zoology, University of Alberta, 1967

ii. Special professional:

Sabbatical Leave: The Scripps Research Institute, LaJolla, CA.
Dr. E.K.L. Chan, 2001.

Sabbatical Leave: The Scripps Research Institute, LaJolla, CA.
Dr. E.M. Tan & Dr. E.K.L. Chan, 1991-1992

Research Assistant: Department of Anatomy, Harvard Medical School,
Dr. E. Anderson, 1971/73

Trainee: Embryology, Marine Biological Laboratories, Woods Hole, MA, 1970

iii. Graduate and post-doctoral:

Ph.D. Cell Biology, University of Calgary, 1971

"Morphological & Biochemical Parameters of Histamine Metabolism in Hepatoma Cells"

Specialty Resident:

Department of Medicine, Foothills Hospital and University of Calgary, Calgary, Alberta,
July 1974 - November 1976

Fellow:

Medical Research Council, Division of Allergy and Immunology, Scripps Clinic and
Research Foundation, La Jolla, California, November 1976 - July 1977.

Supervisor: Dr. E.M. Tan

Division of Rheumatology, University of Colorado, Denver, CO, July 1977 - June 1978.

Supervisor: Dr. E.M. Tan (Head)

iv. Licensure certification and boards:

Fellow Royal College of Physicians & Surgeons of Canada (F.R.C.P (C)) Nov. 1977

Royal College of Physicians, Subspecialty Certificate: Rheumatology, Nov. 1980

Fellow American College of Physicians (F.A.C.P). April 1982

Fellow of the American Academy of Microbiology, October 1983

Fellow American Board Medical Laboratory Immunology, April 1985

III. AWARDS AND DISTINCTIONS:

National Research Council Postgraduate Scholarship, (September 1969-September 1971)

Medical Research Council Fellowship (November 1976-June 1978)

Pi Alpha Mu Society: April 1984

Hall of Fame: American Lupus Society 1986

Distinguished Alumni Award: University of Calgary 1988

Gold Star Letter: Excellence in Teaching 1988

Gold Star Letter: Excellence in Teaching 1990

Distinguished Scientist: Canadian Society for Clinical Investigation 1995

Distinguished Alumni Award: Rocky Mountain College 1996

Gold Star Letter: Excellence in Lecturing 1997

Gold Star Letter: Excellence in Teaching 1999

Arthritis Society Endowed Chair 1999

Mexican Academy of Medicine: Honorary Member 2002

Canadian Rheumatology Association, Scientist of the Year, 2003

The Arthritis Society, Arthritis Hero Award of Distinction, 2003

CIHR, Inst. Musculoskeletal Health, Highest Ranked CIHR Awardee in Arthritis Research, 2003

University of Calgary, Dr. Eldon Smith Distinguished Achievement Award, 2004

Faculty of Medicine, Department of Biochemistry & Molecular Biology, van de Sande
Achievement & Leadership Award, 2005

Alberta Centennial Medal, Lieutenant Governor of Alberta, September 1, 2005

University of Calgary, Department of Medicine, Research Mentor Award, 2007

Distinguished Lectureships:

Arthritis Society Lecturer: University of Western Ontario, 1988
Wallace Graham Lecturer: Queen's University, 1990.
Donald Mitchell Lecturer: University of Saskatchewan, 1992
Metro Ogryzlo Lecturer: University of Manitoba, 1995
Mexican Academy of Medicine. Mexico City, 2002
Sigma Xi Lecture, Calgary, February 19, 2004.
Peter Cosgrove Memorial Lecture, May 2005.
Canadian Society of Clinical Chemists, Traveling Lecturer 2005

IV. ACADEMIC APPOINTMENTS:

1973 - 1976: Sessional Instructor, Faculty of Medicine, University of Calgary
1978 - 1982: Assistant Professor of Medicine, University of Calgary
1982 - 1987: Associate Professor of Medicine, University of Calgary
1987 - Present: Professor of Medicine, University of Calgary

V. EDUCATIONAL ACTIVITIES:**i. Undergraduate:**

I have been responsible for laboratories in Introductory Biology, Comparative Anatomy and Developmental Biology. I lecture at the University of Calgary in basic immunology and the pathophysiology of rheumatic and autoimmune diseases. I developed and implemented a graduate course in Immunology (MDSC 689: Topics in Immunology) and coordinated the Immunology component of the Reticulo-endothelial System for medical students.

ii. Graduate:**Former:**

Supervisor: *Maureen O'Brien, M.Sc., M.D.
M.D. program with a special project studying antigenic ribonucleoprotein particles.
Current Position: Orthopedic Surgery, Clinical Assistant Professor, University of Calgary

Supervisor: Linda Ayer, Ph.D.

Characterization, isolation and purification of centromeric antigen.

Current Position: Research Associate, Dr J. Deans, University of Calgary

Supervisor: *Jitendra Gohil, Ph.D., M.D.

Ph.D. program working on the identification of epitopes on nuclear histone that react with human and murine autoantibodies.

Current Position: Clinical Assistant Professor in Ophthalmology, University of Calgary

Supervisor: *Craig Sokoluk, M.D.

Ph.D. program working on serological/pathological correlations in murine models of SLE.

Current Position: Clinical Rheumatologist, Toronto

Supervisor: John Pauls, B.Sc.(Hons), Ph.D. M.D.
Histone Epitopes
Current Position: Clinical Immunologist, La Jolla, CA

Supervisor: Dolores Freigang, B.Sc.
M.Sc.: Mechanisms of Drug-Induced Autoimmunity
Current Position: Family Medicine

Co-supervisor: Norma Schmill, M.Sc.
MHC Genes in Mesoamerican Populations

Supervisor: Denise Leblond M.Sc.
M.Sc. Program: Centromere Antigens
Present Position: Special Science Education Program, Calgary Board of Education

Supervisor: Kevin Griffith M.Sc.
M.Sc. Program: Autoantigens in the Golgi Apparatus
Present Position: MBA University of Calgary

Supervisor: Sanja Selak Ph.D.
Ph.D. Program: Early Endosome Antigen 1
Current position: PDF
Institute of Neurobiology
Alicanté, Spain

Supervisor: Leeanne Schoenroth M.D., Ph.D.
Ph.D. Program: Estrogen the environment and autoimmunity.
Adjunct Clinical Professor: University of Calgary

Supervisor: LeeAnne Luft
M.Sc. GW proteins and the ribonome of breast cancer
Current position: MD program, University of Calgary

Supervisor: Tony Abboud
B.Sc. Special Project Celiac disease
MBT Special Project Diagnostics for Colorectal Cancer
Current position: Marketing Intern, SemBioSys, Calgary, AB

Supervisor: Laura Stinton M.D. M.Sc.
M.Sc. Supervisor: Unique autoantigen – GRASP-1
Clinical Fellow, Internal Medicine, University of Calgary

Supervisor: Theophany Eystathioy PhD
PhD: GW bodies and GW proteins
Present Position: Life Sciences Sector
University Technologies International
Calgary, Alberta

Supervisor: Rahima Bhanji
MSc Candidate: GW bodies – Clinical relevance
Current position: MD program, University of Alberta

Supervisor: Riley Sullivan
BSc Special Project: GWB in breast cancer

Supervisor: Michael Collins
Masters Biotechnolgy Special Project Supervisor: Novel Diagnostic Technology for Autoimmune Liver Diseases
Current Position: Student, School of Pharmacy, University of Western Ontario

Present:

Supervisor: Joanna Moser
PhD: GW bodies and neural cells

Supervisor: Jennifer Ngo
Special Research Project: Ribosomal P Autoantibodies
MD Research Program, Unviersity of Calgary

iii. Postgraduate:

Supervisor: *Susan Wong, Ph.D., (Biochemistry)
Post-doctoral Fellow worked on histone and proliferating cell nuclear antigens. Cross-linking and group specific ligand methodology in purification of nuclear antigens.
Current Position: Chief Technologist Immunology: Bureau of Communicable Diseases, New York State, Department of Health at Wadsworth Medical Center.

Supervisor: John Arlettte, M.D.
Research Fellow in Dermatology: Autoimmunity in Skin Diseases
Current Position: Clinical Associate Professor, University of Calgary

Supervisor: *Michael Garlepp, Ph.D. Post-doctoral Fellow
The study of Immunogenetics of Autoimmune Mice
Current Position: Associate Professor Immunology, University of Western Australia.

Supervisor (Interim): Norma Schmill M.Sc. (Mexico City)
M.Sc. Supervisor transferred to Dr. Leigh Field
MHC Genes and Rheumatic Disease in Meso-American Skeletons

Supervisor: Liam Martin, M.B.
Post-Doctoral Fellow: Study of Centromere Antigens
Current Position: Associate Professor of Medicine,
Head: Division of Rheumatology & Clinical Immunology, University of Calgary

Supervisor: Luanne Metz, M.D.
Post-Doctoral Fellowship: Clinical and Serological Features of Patients with Multiple Sclerosis and Sjögren's Syndrome
Current Position: Associate Professor of Clinical Neurosciences, University of Calgary

Supervisor: Diane Wilson, M.D.
Research Fellow: Clinical and Immunologic Significance of Nuclear Matrix Antibodies
Current Position: Clinical Rheumatology, Lunenberg, Nova Scotia

Supervisor: Danillo Vaccari M.D.
Research Fellow: Autoantibodies in Scleroderma
Current Position: Professor, University of Sienna, Italy.

Supervisor: Mario Salazar, M.D.
Research Fellow: Identification and Characterization of Nuclear Matrix Antigens
Current Position: Associate Professor of Medicine, University of Guadalajara, Mexico

Supervisor: Maolong Lu Ph.D.
Bioinformatics Specialist: Dow Chemical

Supervisor: Susan G. Barr, MD.
AHFMR Post-Doctoral Research Fellow
Current Position: Assistant Professor, Medicine, University of Calgary

Supervisor: Régine Mydlarski MD
MD graduate project: Anti-phospholipid markers in multiple sclerosis
Current position: Assistant Professor of Medicine, University of Calgary

Supervisor: Dr. Oleg Nadashkevych MD
Scleroderma database and disease criteria
Current position: Professor, University of Lviv, Ukraine

Supervisor: Mitter Santiago MD
Post-Doctoral Trainee
Current Position: Associate Professor, Servico de Reumatologia do Hospital do Santa Izabel/Escola Bahiana de Medicina e Saude Publica, Salvador, Brazil

Supervisor: Jennifer Wlaker MD
Post-Doctoral Trainee
Current Position: Division of Rheumatology, Flinders University
Adelaide, Australia

iv. Continuing Medical Education:

I am a participant in the Royal College of Physicians and Surgeons Maintenance of Certification Program (MoCERT), the Maintenance of Competence program of the American Board of Medical Laboratory Immunology (ABMLI), and the College of American Pathologists. Listing of CME activities is found in Section IX.

VI. ADMINISTRATIVE RESPONSIBILITIES:**i. Departmental:****Past Committees:**

Executive: University Biochemistry Group; Department of Medical Biochemistry (1979-1982)

Medical Sciences Subcommittee of the Research Committee: Faculty of Medicine, University of Calgary (1982-1984)

Undergraduate Education Review Committee, Department of Medical Biochemistry, University of Calgary (1983-1984)

Graduate Training and Education Committee: Department of Medicine, University of Calgary (1983-1985)

Reticulo-Endothelial Curriculum Committee: Responsible for Immunology Section: Faculty of Medicine, University of Calgary (1983-1985)

ii. Faculty:**Past Committees:**

Admissions Committee: Faculty of Medicine, University of Calgary (1972-1974)

Library Committee, (Chairman) Faculty of Medicine, University of Calgary (1983-1985)

Medical Sciences Program Committee, Faculty of Medicine, University of Calgary (1982-1985)

University of Calgary Faculty of Medicine Ethics Criteria Committee (1986)

University of Calgary: Medical Academic Computing Service Committee (1985-1988)

University of Calgary: Educational Resources Group - Computer Equipment (1987-1988)

University of Calgary: Faculty of Medicine - Academic Appointment Review (1986-1988)

University of Calgary: Committee on Research (1988-1989)

University of Calgary: Research Development Committee (1988-1989)

Heritage Scholars Committee, Chairman. University of Calgary (1986-1989)

University of Calgary: Student Appeals Committee, Chairman (1989-1990)

University of Calgary/Faculty of Medicine: 15 committees commensurate with my appointment as Associate Dean (Research) are not listed.

University of Calgary/Faculty of Medicine. Ten Search & Selection Committees for various Chairs, Department Heads and Scientists.

Accreditation 2000 Committee, Faculty of Medicine (May 1999-February 2000)

Health Research Innovation Centre, Planning Committee (Jan1999 – 2004)

Present Committees:

Executive Committee: Inflammation, Immunity and Infection Institute (Jan 2007 –

iii. University:**Past Administration:**

Head: Division of Rheumatology, Clinical Immunology & Dermatology (1985 – 1993)

Associate Dean (Research), Faculty of Medicine (December 1995 — July 1999)

Past Committees:

Executive Faculty Council: Faculty of Medicine, University of Calgary (1980-1982)
University of Calgary: Advisory Review Committee: VP Research (1989-1990)
University of Calgary: Planning Committee (1989-1991)
University of Calgary: Budget Committee (1989-1991)
University of Calgary: Positions Allocation Committee (1989-1991)
University of Calgary: Budget Committee (1993-1996)
University of Calgary: Chair - Budget Committee (1994-1996)
University of Calgary: Planning Committee (1993-1996)
University of Calgary: Positions Allocation Committee (1994-1996)
University of Calgary: Chair: Faculty Organization Hearing Panel (Oct. 1997- Dec. 1997)
Killam Memorial Chair Selection Committee (Nov. 1997 – July 1998)
University of Calgary: VP (Research) Advisory Committee (1996-1999)
Advisory Selection Committee, Dean of Graduate Studies and Associate Vice-President,
Post-graduate Continuous Learning (January 2000 – December 2000)
Two-Step Review Policy & Procedures for Integrity in scholarly Activity (March 2000-
January 2001)
General Faculties Council (July 1999-January 2001)
Striking Committee (July 2000 –January 2001)
Masters in Biotechnology Training Program Committee (June 2002 – July 2003)
Chair: Nominating Committee (January 2002 – 2004)

Present Committees:

Alberta Provincial CIHR Training Program in Bone & Joint Health. Admissions
Committee (August 2002 – present)
Public Health Advisory Committee (2006 – present)
Review of Roles of Departments and Institutes, Faculty of Medicine (Oct 2007 –
present)
Faculty of Medicine Awards Committee (January 2008 – present).

iv. Hospital/Regional Health Authority**Past Committees:**

Laboratory Medical Advisory Committee, Foothills Hospital, University of Calgary (1975-
1976)
Foothills Hospital: Computer Services Advisory Committee (1986)
Foothills Hospital: Research Enhancement Task Force (1985-1987)
Foothills Hospital: Chairman: Rehabilitation Advisory Committee (1988-1991)
CRHA/University Partners In Health Campaign: Allocations Committee (1996-1999)

v. Provincial Government/City of Calgary/Business & Industry**Past:**

Alberta Health: Provincial Laboratories Management Committee (June 1998- 1999)
Calgary Health (Crown) Foundation: Board of Directors (December 1996-1999)
Calgary Technologies Inc.: Scientific Advisory Committee (Jan 1996 – 2002)
Alberta Science & Research Authority, Chair: Communications Committee, ASRA
(October 2000-December 2001)

Alberta Science Research Authority (ASRA), Strategic Investment Committee, ASRA.
(June 1999 – January 2002)
ASRA, Executive Committee (October 2000 –January 2002)
ASRA: Technology Commercialization Committee, ASRA.(Sept. 1999 –December 2001)
Chair: Life Sciences Strategy Committee: (December 2001-May 2004)
Calgary Technologies Incorporated, Board of Directors (May 2002 – July 2004).
Resigned because of conflict of interest in assuming Chair of ASRA.
Chair, Implementation Board, Genome Alberta (April 2005 – 2006)
Member: Alberta Science & Research Authority (ASRA) Board of Management (Jan. 1997- April 2008)
Board of Directors, Genome Alberta (April 2005 – 2008)
Member, eHealth Industry Advisory Committee (June 2006 – 2007)
CytoStore Incorporated, Chair, Scientific Advisory Board (September 2002 – 2007)

Present:

Chair: Alberta Science & Research Authority (ASRA) Board of Management (April 2004 — present)
<http://www.asra.gov.ab.ca/>
ImmunoConcepts Inc., Sacramento, CA., Scientific Advisor (January 1984 – 2008)
<http://www.immunoconcepts.com/>
Member, Board of Directors, Alberta Prion Research Institute (May 2005 – 2012)
<http://www.albertaingenuity.ca/prion/>
Member, Board of Directors, NCE PrionNet (June 2005 – 2010)
http://www.nce.gc.ca/nces-rces/prionet_e.htm
Member Board of Governors, Genome Alberta (Dec 2007 – 2011)
<http://www.genomealberta.ca/>
Member Board of Advisors, Vaccine Infectious Diseases Organization (VIDO)
(Sept 2007– 2011) <http://www.vido.org/>

vi. Community

Member Board of Directors: Calgary Pregnancy Care Centre (1984 -1988)
Member, Board of Directors, Arthritis Society (National) (1989-1994)
Member, Board of Directors, Arthritis Society (Alberta/NWT) (1986-1990)
Member: Board of Directors, Rocky Mountain College (1995-1998; 2004-2005)
Assistant: Chinooks Division I U17 Soccer Team (1996-1999)
Chair: Board of Directors, Rocky Mountain College, (1998-2001)
Coach: Cougars Division I U13 Soccer Team (1999-2001)
Chair: Board of Governors, Centre Street Church, Calgary, AB (2004-present)
Member: Ambrose University College Campus Development Committee (2006 – present)

VII. PROFESSIONAL ACTIVITIES:**i. Membership in professional and learned societies:**

The Alberta College of Physicians
The Alberta Medical Association
The American Federation for Clinical Research
The American College of Rheumatology

The American Clinical Immunology Society
The Canadian Rheumatism Association
The Canadian Society for Clinical Investigation
The Royal College of Physicians and Surgeons of Canada
The American Society for Cell Biology
Faculty of 1000

ii. Professional service:

Grant Reviews:

Canadian Institutes for Health Research
The Arthritis Society
Veterans Administration, USA
National Institutes of Health

Journal Reviews:

Journal of Rheumatology	Clinical Immunology Immunopathology
Arthritis Rheumatism	Clinical Experimental Immunology
Clinical Experimental Immunology	Lupus
Journal of Clinical Investigation	Molecular Immunology
Journal of Immunology	Clinical and Investigative Medicine
Clinical Immunology	Canadian Journal of Cardiology
Arthritis Research & Therapy	Clinical Rheumatology
Clinical Biochemistry	Clinical Chemistry
Journal of Biological Chemistry	Clinical and Applied Immunology Reviews
Journal of Cell Biology	

Editorial Boards:

Arthritis Rheumatism
Journal of Rheumatology
APLAR Journal of Rheumatology
Lupus
Brazilian Journal of Rheumatology
Autoantigens Autoantibodies Autoimmunity (Co-Editor)

National and International Committees:

Past:

Canadian Arthritis Society: Medical and Scientific Committee (1980-1983)
Canadian Arthritis Society: Nominating Committee (1981-1983)
American Federation for Clinical Research (Western Section): Councilor (1981-1984)
Medical Research Council: Immunology and Transplantation Research Grants Panel
(1982-1983)
Medical Advisory Board, Chairman: Lupus Erythematosus Society of Alberta (1978-
1984)

Medical Research Council Fellowship Committee (1983-1984)
Canadian Arthritis Society: Task Force to Study Research Projects Panel (1983-1984)
Canadian Rheumatism Association: Nominating Committee (1981-1984)
American College of Rheumatology (Western Region) Program Committee (1983-1984)
American College of Rheumatology (National) Program Committee (1984)
Canadian Arthritis Society: Grants Review Panel (1980-1985)
International Conference on SLE. Core Program Committee Chairman (1984-1986)
Northwest Rheumatism Society: Executive Committee (1982-1986)
American College of Rheumatology Western Region: Chairman, Program Committee (1985-1986)
Royal College of Physicians and Surgeons: Nucleus Specialty Committee in Rheumatology (1984-1987)
Medical Research Council: Immunology & Transplantation Research Grants Panel (1985-1987)
American College of Rheumatology: Abstract Selection Committee (November 1987 - 1988)
Canadian Arthritis Society: Basic Science Manpower Committee (1985-1988)
Canadian Society for Clinical Investigation. Schering Travel Awards Committee (1985-1988)
Arthritis Foundation: Clinical Research Center Grants Committee (1987-1988)
Alberta Heritage Foundation for Medical Research Scholars Application Committee (1987-1989)
Royal College of Physicians/Canadian Society of Clinical Investigation: Vice Chairman, Scientific Program Committee (1988-1990)
American College of Rheumatology: Glossary Committee (1983-1990)
Canadian Arthritis Society Medical Planning Committee (1985-1990)
Canadian Arthritis Society: Medical Planning Committee, **Chairman** (September 1987-1990)
Canadian Arthritis Society: Medical Affairs Committee (October 1987-1990)
Canadian Society for Clinical Investigation. **President** (1989-1990)
Canadian Arthritis Society Alberta Division: Board of Directors. (1983-1991)
Canadian Society for Clinical Investigation. Executive Committee (1988-1991)
Third International Conference on SLE, London, UK 1992: Program Committee (1991-1992)
XVIII International League Against Rheumatism, Barcelona 1993: Program Committee (1991-1993)
Program Committee, Fourth International Conference on SLE, Jerusalem 1995, (1993-1995)
Alberta Heritage Foundation for Medical Research: Co-Chairman - Program Advisory Committee (1991-1995)
Medical Advisory Board, United Scleroderma Foundation (USA), (1994-1996)
Medical Scope, Medical Advisory Board (1995-1996)
Board of Directors, United Scleroderma Foundation (USA), (1996-1997)
American College of Rheumatology: SLE Study Group (1987-1995)
Clinical and Investigative Medicine: Publications Committee (1989-1994)
AHFMR Nominating Committee (1993-1996)
Program and Abstract Review Committee. American College of Rheumatology. (1995-1997)
Program Committee, Fifth International Conference on SLE, Cancun, Mexico, 1998.
Royal College of Physicians & Surgeons: (Chairman) Gold Metal Award Selection Committee (1994-1998)
Alberta Heritage Foundation for Medical Research: Program Advisory Committee

(1996-1999)

Arthritis Society: Chair: Steering Committee Standards of Care for Patients with Rheumatic Diseases, (March 2000 – January 2001)
Arthritis Society: Chairman, Immunology Grants Panel, (1999 – 2001)
Arthritis Society: Member, Medical Planning Committee, (1999 – 2001)
Lupus 2004 New York, Director and Planning Committee (July 2002 – 2004)
Canadian Rheumatism Association, Executive Committee and Nominating Committee (2003 – 2005)
Chairman, International Union of Immunology Specialties (IUIS)/World Health Organization: Committee on Serology (1994 – 2005).
Co-Chair, Systemic Autoimmune Rheumatic Diseases Consensus Conference, Toronto, ON (2004 — 2005)
Center for Environmental Health Sciences/Environmental Protection Agency, University of Montana, Missoula. Advisory Board (September 2001 – 2005)
VIII International Lupus Congress 2007 Shanghai, Director and Planning Committee (July 2004 – June 2007)
Planning Committee and Co-Chair. Seventh International Symposium on Autoantibodies, Dresden, Germany, 2005-2007.

Present:

Arthritis Foundation - Center for Disease Control: Joint Committee on Serology (1980-
Scleroderma Foundation Medical Advisory Board (1985 -
Lupus Canada: Medical Advisory Board (1992 -
Scientific Advisory Board, NIH Scleroderma Program Group, University of Texas,
Houston, TX (June 2001 -
IX International Lupus Congress 2010 Vancouver, BC, Director and Planning Committee
(July 2006 -
X International Workshop on Autoimmunity and Autoantibodies, Guadalajara, Mexico.
(2006 – 2008)
Vaccine & Infectious Diseases Advisory Board (VIDO), University of Saskatchewan.
(2007 -

VIII. RESEARCH SUPPORT:

i. Current grants, contracts

Canadian Institutes of Health Research: Grant # 10884
Golgi complex and Endosomal Autoantigens.
5 year grant \$107,000/yr (2005-2010)

Canadian Institutes of Health Research: Grant # MOP-57674
GW proteins and GW bodies: Novel autoantigens and their application to ribonomics.
1 year grant. \$100,000/yr (2007-2008)

Relationship of GWB to Prions and Neurological Disease
Anonymous Donor
\$195,000/year (2004-2008)

Canadian Institutes of Health Research

Canadian Scleroderma Study Group: Grant # QDG-66878
Establish a Canadian Clinical and Serum Database
Advanced Diagnostics Laboratory is processing, aliquoting and storing the sera.
\$100,000 (2004-2005)
Canadian Institutes of Health Research (Co-applicant)
NET Training Grant to Canadian Scleroderma Research Group
\$1,100,000 (2007 – 2012)
My pro-rata component ~\$40,000/year for trainee and supplies

Current Research Interests:

- a. Cell and molecular biology of GW proteins, GW bodies and their relationship to exosomes, mRNA degradation, microRNA and mRNA silencing.
- b. Cell and molecular biology of autoantigens in proteasomes, endosomes and the Golgi complex,
- c. Investigation of antigen-antibody profiles in patients with systemic rheumatic diseases.
- d. Study of the pathogenic role of autoantibodies in systemic rheumatic diseases.
- e. Mechanisms of xenobiotic-induced autoimmunity and the effect of environmental toxins on immunity and autoimmunity.
- f. Mapping epitopes and determinants on autoantigens.
- g. Autoantibodies in paraneoplastic and neurodegenerative syndromes.
- h. Relationship of autoantigens to breast and prostate cancer.
- i. New diagnostic technologies (antigen arrays, microfluidics, nanotechnology) in immunology.
- j. Novel biomarkers (proteomics and metabolomics) in systemic autoimmune diseases.

Past Research:

I spent my Medical Research Council Fellowship under the supervision of Dr. Eng Tan. Our studies included autoantibody profiles of drug-induced and idiopathic lupus erythematosus, scleroderma and mixed connective tissue disease. Other research experience includes studies of growth kinetics of tumor cells, the ultrastructure and histochemistry of tumor cells and biochemical studies of diamine-nucleic acid interactions under the direction of Dr. R.B. Church. I have also had training in developmental biology and have spent two summers in the Marine Biological Laboratories, Woods Hole, Massachusetts and Harvard University, Boston, where under the supervision of Dr. E. Anderson, I studied early events of fertilization in both marine and mammalian systems.

Research Collaboration:

I enjoy collaborative studies with Dr. J.B. Rattner, Dr. L. Martin, Dr. D. Hart, Dr. D. Zochodne and Dr. J. Braun at the University of Calgary. I also have extra-mural collaborative arrangements with Dr. E.K.L. Chan at the University of Florida, Drs. E.M. Tan and K.M. Pollard at the Scripps Research Institute in La Jolla, CA. Other ongoing collaborative studies were initiated with Dr. J-L. Senécal, Université de Montréal, Dr. R. Goldstein, University of Ottawa, Drs. F. Arnett and J. Reveille, University of Texas (Houston), Dr. Andrij Holian, Environmental Health Sciences, University of Montana, Dr. K. Miyachi, University of Tokyo, Dr. Jack Keene, Duke University, Dr. I. Garcia de la Torre,

University of Guadalajara, Dr. Scott Tenenbaum, SUNY, Albany, NY, and Dr. Michael Mahler, Dr. Fooke Laboratorien, Neuss, Germany.

IX. INVITED ADDRESSES:**i. International**

Mixed Connective Tissue Disease. American College of Physicians, "Advances In Internal Medicine", Banff, AB, June, 1979.

Serologic and Immunologic Features of Sjögren's Syndrome Annual Northwest Rheumatology Association, Banff, AB, May 1980.

Serological Diagnosis in Rheumatic Disease American College of Physicians, "Advances In Internal Medicine", Banff, AB, June 1981.

New Advances in Understanding the Diagnostic Significance of Antinuclear Antibodies. Annual Northwest Rheumatology Association, Seattle, WA, April 1982.

Antinuclear Antibodies: New Trends In Diagnosis of Systematic Rheumatic Diseases. Western Regional ARA Meeting, Monterey, CA, February 10-11, 1983.

Antinuclear Antibodies: Meet the Professor. American College of Physicians, "Advances In Internal Medicine", Banff, AB, June 14, 1983.

Symposium: Geriatric Rheumatology: Therapeutic Considerations. Special Problems In Geriatric Medicine, University of British Columbia, Vancouver, BC, November 25, 1983.

Newer Autoantibodies: Clinical Applications. Medical Grand Rounds, University of Illinois Medical College, Peoria, IL, May 2, 1984.

Colloquium Protides of the Biological Fluids: Brussels, Belgium, Chairman: Antinuclear Antibodies - Methodologies, Speaker: a) The Detection of Autoantibodies: An Overview; b) Certain Autoantibodies Bind Histone Determinants, April 30 - May 3, 1985.

International League Against Rheumatism, Sydney, Australia, Workshops: "Antinuclear Antibodies"; "Epstein-Barr Virus and Rheumatoid Arthritis"; "Strategy for a New Non-Steroidal Anti-inflammatory Drug", May 20-24, 1985.

American Rheumatism Association, Anaheim, CA, "New Developments in Autoimmune Disease Testing", June 6, 1985.

Scripps Clinic and Research Foundation/The University of Texas System Cancer Center, M.D. Anderson Hospital and Tumor Institute. Clinical Laboratory Molecular Analyses: Emerging Technology and Future Trends. "Autoantibodies to Mitosis/related Antigens" San Diego, CA, February 5-7, 1986.

University of Calgary Homecoming, Calgary, AB. "Immunology and the Future", October 4, 1986.

Autoimmunity Workshop. San Juan, Puerto Rico. "Autoantibodies to Mitosis-related Antigens", October 31, 1986.

University of Western Australia, Perth, Australia. "Autoantibody Testing: New Advances in Detecting ANA" and "Histone Determinants Reacting With Human Autoantibodies", January 22-23, 1987.

20th Annual J.H. Holt Memorial Academic Assembly, St. Francis Regional Medical Center, Wichita, KS - "Diagnosis and Treatment of Systemic Lupus Erythematosus" and "Immunological Testing: The Clinical Use of the Immunology Laboratory", September 30, 1988.

Second International Conference on Systemic Lupus Erythematosus, Singapore, Malaysia. "Studies on the Immunomodulatory Effects of Procainamide" and "Are Histones Autoantigens in SLE?", November 29/30, 1989.

Western Region American College of Rheumatology, Portland, OR - "Is SLE an Antigen Driven Disease?" March 23, 1990.

Panamerican Congress of Rheumatology, Guadalajara, Mexico - "Antinuclear Antibodies", March 15, 1990.

Scripps Clinic & Research Foundation, LaJolla, CA. "Is SS-A/Ro the Homologue of Calreticulin?" July 22, 1991.

University of Texas San Antonio, San Antonio, TX. "The Use of Autoantibody Testing in Clinical Medicine." Medical Grand Rounds, October 9, 1991.

University of Texas San Antonio, San Antonio, TX. "Understanding the Origin and Diversity of Antinuclear Antibodies." October 10, 1991.

Lupus Foundation of America, San Antonio, TX. "The Future of SLE Research in North America." October 10, 1991.

The Lupus Society of America, San Diego, CA. "New Insights on Lupus: Advances and Recent Trends in the Treatment of SLE." October 12, 1991.

Electra-Box and Swedish Association Clinical Pathologists, Stockholm, Sweden. "Clinical Association of Anti-nuclear Antibodies." April 6, 1992.

Third International Conference on SLE, London, England. "Overview: Lessons from Drug-Induced Lupus (DIL)." April 13-15, 1992.

Annual Meeting, United Scleroderma Foundation. "Scleroderma: Breaking Down The Boundaries". July 18, 1992.

Annual Meeting, United Scleroderma Foundation. "Progress in Scleroderma Research". July 18, 1992.

Lupus Foundation Workshop: Environmental triggers of SLE, University of Minnesota. "Drug induced lupus." November 14, 1992.

Japanese Society of Dermatology, Nagoya, Japan. "Autoantibodies in Scleroderma." October 31, 1992.

Japanese Society of Dermatology, Nagoya, Japan. "Molecular Biology of Autoantigens." November 1, 1992.

Yokohama Medical Society, Yokahama, Japan. "Autoantibodies: Markers of Clinical Subsets in Systemic Rheumatic Diseases." November 5, 1992.

Keio University, Tokyo, Japan. "Autoantibodies: Markers of Clinical Subsets in Systemic Rheumatic Diseases." November 5, 1992.

Jutendo University, Tokyo, Japan. "New Diagnostic and Therapeutic Approaches to Scleroderma." November 6, 1992.

XVIII ILAR Congress of Rheumatology, Barcelona, Spain. "Autoantibodies: Pathogenesis and Disease." July 5, 1993.

XVIII ILAR Congress of Rheumatology, Barcelona, Spain. "Pathogenic Autoantibodies: Lessons from Drug-Induced Lupus." July 8, 1993.

The Henry Kunkel Society, Rockefeller University, New York, NY. "Heterogeneity of Golgi complex autoantibodies in patients with autoimmune disorders." April 29, 1994.

Fourth International Conference on SLE. Jerusalem, Israel. "The History of the International Conference on SLE". March 28, 1995.

International Symposium of Antinuclear Antibodies. Zacatecas, Mexico. "Autoantibodies: Diagnostic Clues and Etiologic Roles in Rheumatic Diseases". June 8, 1996.

International Symposium of Antinuclear Antibodies. Zacatecas, Mexico. "Perspectives and New Tools for the Identification of Human Autoantibodies". June 8, 1996.

University of Guadalajara, Guadalajara, Mexico. "Newer Autoantibodies as Markers of Systemic Rheumatic Diseases". June 10, 1996.

Evaluation of techniques used to identify autoantibodies in systemic rheumatic diseases. Mexican Congress Rheumatology. Guadalajara, Mexico. July 25, 1997.

Fritzler, M.J. Progress in identifying new autoantibodies and their clinical relevance. Mexican Congress Rheumatology. Guadalajara, Mexico. July 26, 1997.

Fritzler, M.J. Newer Autoantibodies in Systemic Lupus Erythematosus. Fifth International Conference of SLE, Cancun, Mexico. April 1998.

Fritzler, M.J. Cell Biology and Clinical Relevance of New Autoantibodies. XII Pan-American Congress of Rheumatology. Montreal. June 23, 1998.

University of Texas Medical Center. Rheumatology Grand Rounds. Molecular and Cell Biology of Endosome and Golgi Complex Autoantigens. Houston, TX. January 11, 2000.

University of Texas Medical Center. Medical Grand Rounds. Advances in Autoantibodies: Clinical Applications.. Houston, TX. January 11, 2000.

Fifth Dresden Symposium on Autoantibodies, Clinical and Basic Science Application of Newer Autoantibodies. Dresden, Germany. October 18, 2000.

Progress in Understanding the Structure and Function of Novel Autoantigens in Rheumatic Diseases. Department of Molecular and Experimental Medicine, The Scripps Research Institute, La Jolla, CA. February 19, 2001.

Sixth International Lupus Conference, Role of Histones in anti-nucleosome reactivity in SLE, Barcelona, Spain, March 2001

Sixth International Lupus Conference, Drug and Environmental Lupus, Barcelona, Spain, March 2001

Sixth International Lupus Conference, Plenary Session: Autoantibody Responses and Lupus, Barcelona, Spain, March 2001.

Second Interdisciplinary Symposium on the Treatment of Autoimmune Disorders, Advances in understanding autoantibodies as diagnostic, prognostic and pathogenic markers of human diseases, Kiel, Germany, June 8, 2001.

Fifth Workshop of the Australian ANCA Study Group. Atypical cANCA Reactivity. Melbourne Australia, September 3, 2001.

Australian Institute of Medical Scientists National Scientific Meeting, Opening Plenary Session. Unsolved Mysteries of Medical Science: The Meaning of Autoantibodies. Melbourne, Australia, September 5, 2001.

Australian Institute of Medical Scientists National Scientific Meeting. Immunology Workshop. Standardization, Interpretation and Emerging Technologies of Autoimmune Testing. Melbourne, Australia. September 4, 2001

Australian Institute of Medical Scientists National Scientific Meeting. Immunology Section. Celiac disease: Role of TTG Antibody Testing. Melbourne, Australia. September 5, 2001.

Australian Institute of Medical Scientists National Scientific Meeting. Rheumatology Section. Autoantibodies in Rheumatic Diseases. Melbourne, Australia. September 7, 2001.

Monash University. Clinical and Biological Significance of Newer Autoantibodies. Melbourne, Australia, September 10, 2001.

Flinders University. Autoantibodies in Systemic Rheumatic Diseases. Adelaide, Australia. September 12, 2001.

Canadian Rheumatology Association. Autoantibodies: What Have We Learned in the Past 20 Years? Chair and Presentation. Lake Louise, AB. February 21, 2002.

Sixth Dresden Symposium on Autoantibodies. Advances in Diagnostic Technologies. And Chair of Session, Novel Autoantibodies of Diagnostic and/or Pathogenic Significance. Dresden, Germany. September 4-7, 2002.

Mexico National Institute of Cardiology, Newer Autoantibodies. Mexico City, September 18, 2002.

Mexican Academy of Medicine. Advances in Technologies to Detect Human Autoantibodies. Mexico City, September 18, 2002.

Eighteenth International Congress of Clinical Chemistry and Laboratory Medicine, Advances in Autoantibody Detection. Kyoto, Japan, October 24, 2002.

Euroimmun Conference, Lubeck, Germany.

Newer Autoantibodies and Their Clinical Diagnostic Relevance, May 21, 2003.

Meeting the Expert in Rheumatology, Florence, Italy.

- New Autoantibodies: Markers for Rheumatic and Neurological Diseases.
- New Technologies in Autoantibody Testing.

May 26, 2003.

Spanish Society Clinical Immunology, Cadiz, Spain.

Challenges for the Clinical Autoantibody Laboratory, May 28, 2003.

Cajal Institute of Neurology, Madrid, Spain.

Novel Intracellular Autoantigens and Their Association With Neurological Diseases. June 2, 2003

Euromedlab Congress, Barcelona, Spain

Antigen Arrays & Addressable Laser Bead Technologies: New Approach to Autoantibody Assays. June 4, 2003.

Eighth International Workshop on Autoantibodies and Autoantigens, Antibodies to p95c inhibit nuclear reconstitution and may be identical to p97/VCP. Berlin, Germany, September 12, 2003.

Eighth International Workshop on Autoantibodies and Autoantigens, Autoantibodies to cytoplasmic "somes". Berlin, Germany, September 13, 2003.

Novel Autoantibodies in the Diagnosis of Autoimmune Diseases. Austin Health, Melbourne University, Melbolurne, Australia, October 6, 2003.

Autoantibodies to cytoplasmic "somes". Monash University, Melbourne, Australia, October 9, 2003.

Advances, the Future and Challenges of Novel Therapeutics for Autoimmune Diseases. Plenary Session of the 8th Annual Meeting of the Australasian Society of Clinical Immunology & Allergy, Melbourne, Australia. October 10, 2003.

An overview of old and new auto-antibodies in the diagnosis of systemic rheumatic diseases. Plenary Session of the 8th Annual Meeting of the Australasian Society of Clinical Immunology & Allergy, Melbourne, Australia, October 11, 2003.

Effects of environmental oestrogens, petroleum, arsenic and heavy metal exposure on autoimmunity. 8th Annual Meeting of the Australasian Society of Clinical Immunology & Allergy, Melbourne, Australia, October 12, 2003.

Addressable Laser Bead Technology in Autoimmune Disease. Diagnostic Immunology Discussion Group. Sebel Lodge, Yarra, Australia, October 12, 2003.

Nuclear Pore and Mitotic spindle antibodies. Diagnostic Immunology Discussion Group. Sebel Lodge, Yarra, Australia, October 13, 2003.

New technologies and their application to rheumatic diseases. American College of Rheumatology Study Section, Washington, DC. November 13, 2004.

Autoantibodies and Autoimmunity: New Approaches to Therapeutics. XXXII Congress of the Mexican College of Rheumatology, Guadalajara, Mexico, February 13, 2004.

New Autoantibodies. Magistral Lecture, XXXII Congress of the Mexican College of Rheumatology, Guadalajara, Mexico, February 14, 2004.

Novel Autoantigens of the Nuclear Envelope, Czechoslovakian Congress of Immunology and Laboratory Medicine, Prague, Czechoslovakia, August 30, 2004.

New Diagnostic Approaches to Autoimmunity: Experience with Addressable Laser Bead Technology. Seventh Dresden Symposium on Autoantibodies, Dresden, Germany, September 5, 2004.

Clinical Relevance of Newer Autoantibodies. 38th Brazilian Congress of Clinical Pathology and Laboratory Medicine, Florianopolis, Brazil, September 24, 2004.

New and Emerging Technologies in Autoantibody Testing. 38th Brazilian Congress of Clinical Pathology and Immunology, Florianopolis, Brazil, September 25, 2004.

New Diagnostic Approaches to Therapeutics in Autoimmune Diseases. Autoimmunity and Autoantibodies Symposium, Ankara, Turkey, April 13, 2005.

Clinical Relevance of Newer Autoantibodies. Autoimmunity and Autoantibodies Symposium, Ankara, Turkey, April 14, 2005.

Autoantibodies in Autoimmune Liver Diseases, Australasian Society of Clinical Immunology & Allergy, Queenstown, New Zealand, Sept 3, 2005.

New Diagnostic Technologies: Addressable Laser Bead Immunoassay. Australasian Society of Clinical Immunology & Allergy, Queenstown, New Zealand, Sept 4, 2005.

Advances and Applications of Multiplexed Technologies in Autoimmune Diseases. 9th International Workshop on Autoantibodies and Autoimmunity, Gainesville, FL, Sept 31, 2005.

Novel Autoantigens & New Technologies in the Diagnosis of Systemic Rheumatic Diseases. Symposium: Advances in the Diagnosis of Systemic Autoimmune Diseases. Dusseldorf, Germany, May 17, 2006

New Approaches to Therapy of Systemic Rheumatic Diseases. 2nd Conference of the Network Innovative Rheumatology (NIR), Berlin, Germany. May 18, 2006.

Autoantibody Integrated Profiles as Potential Indicators of Clinical Phenotypes. American Association of Clinical Chemistry, Chicago, IL, July 24, 2006.

Autoantibodies to miRNA components: What are GWBs anyway? Faculty of Medicine, University of Western Ontario, London, ON. January 9, 2006.

Advances and Applications of Multiplexed Technologies in Autoimmune Diseases. 9th International Workshop on Autoantibodies and Autoimmunity, Gainesville, FL, Sept 31, 2005.

Novel Autoantigens & New Technologies in the Diagnosis of Systemic Rheumatic Diseases. Symposium: Advances in the Diagnosis of Systemic Autoimmune Diseases. Dusseldorf, Germany, May 17, 2006

Ribosomal P autoantibodies: specific marker for SLE. International Congress of Autoimmunity and Autoantibodies, Sorrento, Italy. November 28, 2006.

Autoantibodies to Novel Components of the Golgi Complex, Endosomes and GW Bodies. The 14th Symposium on Autoantibodies and Autoimmunity. Feb 10, 2007, Tokyo, Japan.

Advanced in Diagnostic Technologies for Autoimmune Diseases. American Medical Laboratory Immunology. Chicago, IL. August 10, 2007.

Autoantibodies, Classification Criteria and Diagnosis of Systemic Autoimmune Rheumatic Diseases. 8th International Symposium on Autoantibodies, Dresden, Germany. September 12, 2007.

Autoantibodies to Cytoplasmic Autoantigens in Endosomes, Exosomes and the Golgi Complex. 8th International Symposium on Autoantibodies, Dresden, Germany. September 12, 2007.

Advances in Autoantibody Testing. American College of Rheumatology, Washington, DC, November 13, 2006

Ribosomal P Proteins. Autoimmunity & Autoantibodies International Congress, Sorrento, Italy, November 28, 2006.

Autoantibodies to Novel Components of the Golgi Complex, Endosomes and GW Bodies. The 14th Symposium on Autoantibodies and Autoimmunity. Feb 10, 2007, Tokyo, Japan

Newer Autoantibodies in Systemic Lupus Erythematosus. VIII International Lupus Congress, Shanghai, China. May 25, 2007.

New Approaches to the Diagnosis and Treatment of Systemic Lupus Erythematosus, VIII International Lupus Congress, Shanghai, China. May 26, 2007.

Predictive Value of Isolated Autoantibodies. VIth Menarini Autoimmunity Symposium, Berlin, Germany, November 18, 2007.

Autoantibody Diagnostic Technologies: The Good, Bad and Ugly. International Workshop on Autoantibodies and Autoimmunity, Guadalajara, Mexico. March 8, 2008.

ii. National — Provincial

Antinuclear Antibodies: New Techniques, New Patterns and New Interpretations. Annual Meeting Ontario Society of Laboratory Technologist, Hamilton, ON, September 1982.

Rheumatology in the 80's: A Symposium for Physicians Cross Canada Satellite Conference, Calgary, AB, September 1982.

The Use of Non-Steroidal Anti-inflammatory Agents in the Treatment of Rheumatic Diseases. Dialogue. Oshawa, ON, April 7, 1983.

The Use of Non-Steroidal Anti-inflammatory Agents in the Treatment of Rheumatic Diseases. Dialogue. Oshawa, ON, April 7, 1983.

The Clinical Significance of Antinuclear Antibodies: Medical Grand Rounds, University of British Columbia, Vancouver, BC, September 8, 1983.

An Appraisal of the Antigenic Moiety-ribonucleoprotein-reacting with Autoimmune Sera. University of British Columbia, Vancouver, BC, September 9, 1983.

Dialogue on Arthritis: Problems in Everyday Practice. York County Hospital and Orillia Medical Society, Orillia, ON. October 11, 1983.

Dialogue on Arthritis: Problems in Everyday Practice. Toronto General Hospital, October 12, 1983.

Arthritis: A Confrontation with Pain. Women's College Hospital, Toronto, ON, October 12, 1983.

Dialogue on Arthritis: Problems in Everyday Practice. Queensway General Hospital, Etobicoke, ON, October 13, 1983.

Clinical Applications of Autoantibody Testing. Medical Grand Rounds, The Doctors Hospital, Toronto, ON, October 14, 1983.

Geriatric Rheumatology. Baycrest Geriatric Center, Toronto, ON, October 14, 1983.

Autoantibodies: Clinical Correlations. Victoria Medical Society, Victoria, BC, November 24, 1983.

Therapeutic and Diagnostic Advances in Rheumatology. Medical Rounds, Scarborough General Hospital, Scarborough, ON, January 17, 1984.

Is Ribonucleoprotein a Single Antigen? Department of Rheumatology, University of Sherbrooke, Sherbrooke, PQ, January 27, 1984.

Autoantibodies: A Guide to Diagnosis, Prognosis and Therapy. Medical Grand Rounds. University of Sherbrooke, January 20, 1984.

The Future of Rheumatology. Medical Rounds. Medical Society of Thunder Bay. Thunder Bay, ON, March 26, 1984.

Diagnosis and Treatment of Rheumatic Diseases: A Practical Approach. University of Western Ontario, Simcoe, ON, April 18, 1984.

Geriatric Rheumatology. Ninth Annual Medical Clinic Day. Baycrest Centre, Toronto, ON, May 18, 1984.

New Perspectives in Antinuclear Antibody Testing. Canadian Society for Medical Laboratory Technologists, Vancouver, BC, June 18, 1984.

Continuing Medical Education, Cross Canada Tele-Conference, "Non-Steroidal Anti-inflammatory Drugs Reappraised", January 1985.

Update Internal Medicine, St. Paul's Hospital, Vancouver, BC, "Management of SLE"; "Update: Immunologic Concepts of Rheumatic Disease"; "Update: Antinuclear Antibodies", November 7-8, 1985.

Nova Scotia Division Arthritis Society Annual Meeting, Halifax, NS, "Arthritis Research: The Next Five Years", April 18, 1986.

Canadian Society of Pharmacy, Annual Meeting., "The Use of NSAIDs in the Elderly", May 26, 1986.

Canadian Arthritis Society, Annual Senior Staff Conference, "Arthritis Research: New Directions and New Perspectives"; "Arthritis Research: Future Trends and Developments", June 21-22, 1986.

Canadian Arthritis Society, Winnipeg, MB "Something Old, Something New, Something Borrowed, Something Blue - Advances in Research", May 14, 1987.

Canadian Arthritis Society, Regina SK, "Canadian Rheumatology: The Next Ten Years", June 22, 1987

Canadian Arthritis Society, Calgary, AB, "Arthritis In Canada: Lessons from the Past", June 29, 1987.

Guest Speaker, Canadian Arthritis Society, National Executive Committee, Toronto, ON - "Immunogenetics of Rheumatic Diseases", June 13, 1988.

Medical Conference: "Family Practice The Leading Edge" sponsored by The Deep Cove Medical Clinic, North Vancouver, BC. held in Kona, Hawaii, February 13-17, 1989.

Searle Canada: New Concepts in Misoprostil Therapy - A Research Challenge "Misoprostil in the Treatment of Systemic Lupus Erythematosus" Vancouver, B.C., October 27-28, 1990.

Prostaglandins in Arthritis: Innovations in Therapy, "Use of Misoprostol in SLE: A Proposal", Vancouver, B.C., October 26-28, 1990.

Annual Meeting RCPS/CSCI: Presidential Address. "The CSCI: We Concentrate on Making the Grass Grow". September 11, 1990.

TeleMedicine Canada. "Clinical and Therapeutic Approach to SLE." January 25, 1991.

Specialty/GP'91: A Meeting of the Minds. "The Laboratory Investigation of Rheumatic Diseases". Whistler, B.C. January 26, 1991.

Specialty/GP'91: A Meeting of the Minds. "Osteoarthritis: New Developments in Pathogenesis and Treatment". Whistler, B.C. January 26, 1991.

Rheumatology Subspecialty Rounds. "Histone Autoantibodies: Clues to Autoimmunity". Saskatoon, Saskatchewan, May 19, 1992.

Special Research Seminar. "New and Unusual Autoantibodies". Saskatoon, Saskatchewan, May 19, 1992.

Donald M. Mitchell Memorial Lectureship. "Systemic Lupus Erythematosus: Disease Subsets for all Specialties". Saskatoon, Saskatchewan, May 20, 1992.

Medical Grand Rounds. "The Use and Abuse of Autoantibody Testing in Clinical Medicine". McGill Arthritis Research Unit, Montreal, Quebec, June 2, 1992.

Research Round. "Histone Autoantibodies: Clues to Autoimmunity". McGill Arthritis Research Unit, Montreal, Quebec, June 2, 1992.

Canadian Congress of Laboratory Medicine. "Clinical and Laboratory Perspective of Auto-antibody Tests in Relation to Rheumatic Diseases." Banff, Alberta, June 30, 1993.

Wallace Graham Lecturer. "Systemic Lupus Erythematosus: A Disease for all Specialties." Queen's University, Kingston, Ontario, November 18, 1993.

Basic Science Seminar. "Human Autoantibodies: Probes for the structure and function of the Golgi Complex." Queen's University, Kingston, Ontario, November 18, 1993.

Clinical Seminar. "Autoantibody Profiles: A key to diagnosis and prognosis." Queen's University, Kingston, Ontario, November 18, 1993.

Canadian Society for Clinical Investigation. Montreal, PQ. "Autoantibodies: Diagnostic Fingerprints but Etiologic Dilemmas. September 17, 1995

Metro Ogryzlo Lecturer, The University of Manitoba: "The Clinical Significance of Newer Autoantibodies Encountered in Clinical Practice". October 17, 1995

University of Manitoba. "The Spectrum of Newer Autoantibodies in Systemic Sclerosis and Related Conditions". October 18, 1995.

Lupus Canada. Research Progress in Systemic Lupus Erythematosus. Lupus Canada Annual Executive Meeting. Calgary, AB. April 14, 1999.

Arthritis Society Annual Conference, Arthritis Research at the Dawn of the New Millennium., Calgary, AB. Sept. 23, 2000.

Canadian Rheumatism Association Annual Meeting. New Autoantibodies and Advances in the Technology to Detect Autoantibodies, Lake Louise, AB. March 1, 2002.

Canadian Laboratory Medicine Congress. New Techniques for Testing Autoantibodies. Calgary, AB. May 22, 2002.

Cross Cancer Institute. A novel cytoplasmic protein and organelle. Role in mRNA processing and cancer. Edmonton, AB. November 28, 2002.

The Future of Arthritis Research, New Approaches to Diagnostics and Therapeutics for Arthritis, Arthritis Research Day, Arthritis Society and The University of Calgary, June 19, 2004.

New Autoantibody markers for Autoimmune Diseases. University of Toronto, Toronto, ON, November 8, 2004

Distinguished Canadian Rheumatologist Lecture Series. New Technologies and Future Approaches to Therapeutics in Rheumatic Diseases. University of Toronto, Toronto, ON. November 9, 2004.

New Approaches in the Diagnosis of Rheumatic Diseases. University of British Columbia. May 13, 2005.

The Merging Fields of Diagnostics and Therapeutics: Theranostics. Annual Peter Cosgrove Lecture, Island Wide Rheumatology Group. Victoria, British Columbia, May 15, 2005.

The Big Picture: Where is Alberta Science Headed in the 21st Century. 34th Annual Meeting of the Canadian Science Writers Association. Jasper, Alberta, June 18, 2005.

Canadian Society of Clinical Chemists Traveling Lecture: Newer Autoantibodies and Their Relevance to Clinical Immunology. Montreal (October 25); Ottawa (October 26); Toronto (October 27); Hamilton (October 28); Vancouver (October 31); Calgary (November 4).

New Autoantibodies in Clinical Neurology. McMaster University Medical Center, Hamilton, ON. October 28, 2005.

Theranostics; The Merging of Diagnostics and Therapeutics in Systemic Autoimmune Rheumatic diseases. Canadian Conference on systemic autoimmune Rheumatic Diseases (SARD), Toronto, ON, December 4, 2005

Advances in Scleroderma Diagnostics. What Difference Will It Make? Scleroderma Society of Canada. September 29, 2007.

iii. Regional: most recent only**(150 not listed)**

Novel GW autoantigens: Tools for ribonomics and unique mRNA domains. Department of Biochemistry and Molecular Biology. Faculty of Medicine, University of Calgary. January 25, 2002

Autoantibodies to a unique mRNA complex. Immunology Research Group, Faculty of Medicine, University of Calgary, March 8, 2002.

New Autoantibodies and Technologies in Rheumatic Diseases, Division of Rheumatology, Faculty of Medicine, University of Calgary, March 20, 2002.

Autoantibody Markers for Rheumatoid Arthritis, Division of Rheumatology, Faculty of Medicine, University of Calgary, June 5, 2002.

New Technologies in ENA Testing; The Calgary Health Region. Division of Rheumatology, November 6, 2002

Electronic Publishing: The good, the bad and the ugly. University of Calgary, Librarians Conference, November 12, 2002.

Advances in Diagnostics of Rheumatic Diseases, Division of Rheumatology, Faculty of Medicine, University of Calgary, March 19, 2003.

Mitogen: A New Venture Based on New Diagnostic and Therapeutic Technologies, Calgary Chamber of Commerce, April 2003.

Autoimmune Liver Diseases, Division of Rheumatology, Faculty of Medicine, University of Calgary, May 7, 2003.

New Approaches to Therapy of Autoimmune Diseases. Division of Rheumatology, Faculty of Medicine, University of Calgary. January 28, 2004.

How Ordinary People Contribute to Biomedical Research. Sigma Xi Invited Lecture, University of Calgary, February 19, 2004.

Update on Autoantibody Testing. University of Calgary, CME, November 18, 2004.

Alberta Science & Research Authority and Public Policy, Division of Rheumatology, University of Calgary, March 23, 2005.

The Use of Autoantibody Testing in Rheumatology, Provincial Rheumatology Workshop, April 2, 2005.

ASRA and Life Sciences Update, Department of Biochemistry and Molecular Biology, University of Calgary, April 6, 2005.

The Merging of New Diagnostic Technologies With Therapeutics for Autoimmune Diseases. Masters Biotechnology Curriculum, University of Calgary, April 6, 2005.

Laboratory Tests in Rheumatology, University of Calgary, Faculty of Medicine CME: Rheumatology and Musculoskeletal Health, A Program from Family Physicians. May 6, 2005.

How Everyday People Make Extraordinary Contributions to Medical Breakthroughs. Knights of the Round Table, Calgary, AB. January 17, 2006.

Advances in Diagnostics and Therapeutics in Arthritis. Arthritis Society Research Day, Calgary, AB. June 17, 2006.

The Peer Review System; Is a Better Way? Knights of the Round Table, Calgary, AB. June 20, 2006.

New Diagnostic Technologies and Approaches to Treatment of SLE. Lupus Erythematosus Society of Alberta. September 29, 2007.

X. PUBLICATIONS/PRESENTATIONS:

- **Peer Reviewed Manuscripts: 228**
- **Abstracts: 238**
- **Book Chapters: 55**
- **Trainees are underlined**

1. Fritzler MJ. Histamine Metabolism in Hepatoma Cells. Ph.D. Thesis, University of Calgary, 1971.
2. Fritzler MJ, Church RB, Wagenaar EB. The Ultrastructure of Taper Hepatoma Ascites Cells. *J Electron Microsc* 22:73-90, 1973.
3. Fritzler MJ, Church RB. Hepatoma Nucleic Acid-Histamine Interactions. *Differentiation* 1:373-381, 1973.
4. Davidenas JA, Fritzler MJ, Giblak RE, Church RB. Characteristics of a New Rapidly Proliferating Rabbit Cell Line. *In Vitro* 9:223-229, 1974
5. Fritzler MJ, Watson JI, Church RB. Localization of Anti-nuclear Antibodies on Human Metaphase Chromosomes. *J Immunol Methods* 5:21-31, 1974.
6. Fritzler MJ, Watson JI, Church RB. A Simple Procedure for the Isolation of IgG antinuclear Antibodies from Human Serum. *Clinical Biochem* 7:179-185, 1974.
7. Ring J, Fritzler MJ, Arroyave CM, Tan EM. In Vitro Histamine and Serotonin Release and Independent Release Reaction and Changes of Human Blood Cells. *Clin Exp Immunol* 32:105-108, 1978.
8. Fritzler MJ, Ring J, Arroyave, CM, Tan EM. Human Blood Cells: Ultrastructural Changes and Mediator Release after Exposure to Radiographic Contrast Media. *Can Med Assoc J* 119:901-906, 1978.
9. Miyachi K, Fritzler MJ, Tan EM. Autoantibody to a Nuclear Antigen in Proliferating Cells. *J Immunol* 121:2228-2234, 1978.
10. Fritzler MJ, Tan EM. Antibodies to Histones in Drug-induced and Idiopathic Lupus Erythematosus. *J Clin Invest* 62:560-567, 1978.
11. Shepherd JD, Fritzler MJ, Watson JI, van de Sande JH. The Binding of Anti-DNA Antibodies as Measured Fluorometrically by Ethidium Bromide. *J Rheumatol* 5:391-398, 1978.
12. Fritzler MJ, Kinsella TD. The CREST Syndrome: A Distinct Serologic Entity with Anticentromere Antibodies. *Am J Med* 69:520-525, 1980.
13. Tan EM, Rodnan GP, Garcia I, Moroi Y, Fritzler MJ, Peebles C. Diversity of Antinuclear Antibodies in Progressive Systemic Sclerosis. *Arthritis Rheum* 23:617-625, 1980.
14. Moroi Y, Peebles C, Fritzler MJ, Steigerwald J, Tan EM. Autoantibody to Centromere (Kinetochore) in Scleroderma Sera. *Proc Natl Acad Sci (USA)*, 77:1627-1631, 1980.

15. Kinsella TD, Fritzler MJ. CRP: An Immunoregulatory Protein? *J Rheumatol* 7:272-274, 1980.
16. McCarty GA, Valencia DW, Fritzler MJ, Barada FA. A Unique Antinuclear Antibody Staining Only the Mitotic Spindle Apparatus. *N Engl J Med* 305:703, 1981.
17. Fritzler MJ, Ryan JP, Kinsella, TD. Clinical Features of SLE Patients with Antihistone Antibodies. *J Rheumatol* 9:46-51, 1982.
18. Tan EM, Fritzler MJ, McDougal JS et al. Reference Sera for Antinuclear Antibodies. I. Antibodies to Native DNA, Sm, nuclear RNP and SS-B/La. *Arthritis Rheum* 25:1003-1005, 1982.
19. Fritzler MJ, Ayer LM. Anticentromere Antibodies: Clinical and Biological Significance. *J Rheum* 9:489-490, 1982.
20. Kinsella TD, Lanteigne C, Lewkonia RM, Fritzler MJ. Studies of Circulating Immune Complexes in Ankylosing Spondylitis. *Clin Invest Med* 5:223-230, 1982.
21. Fritzler MJ. The *Crithidia luciliae* Immunofluorescent Test: A Confirmation of Anti-DNA Antibodies. *Immuno Concepts* 1:2-3, 1982.
22. Fritzler MJ, McCarty GA, Ryan JP, Kinsella TD. Clinical Features of Patients With Antibodies Directed Against Proliferating Cell Nuclear Antigen (PCNA). *Arthritis Rheum* 26:140-145, 1983.
23. Kinsella TD, Fritzler MJ, McNeil DJ. Ankylosing Spondylitis. A Disease in Search of Microbes. *J Rheumatol* 10:2-4, 1983.
24. Fritzler M J, O'Brien MD. The Purification, Characterization and Amino Acid Analysis of Nuclear Ribonuclear Protein and Sm Antigens Reacting With Human Autoimmune Sera. *Clin Invest Med* 6:61-71, 1983.
25. Makinen D, Fritzler MJ, Davis P, Sherlock S. Anticentromere Antibodies in Primary Biliary Cirrhosis. *Arthritis Rheum* 26:914-917, 1983.
26. de Champlain JP, Kinsella TD, Fritzler MJ, Werschler, B. Immunocytologic Studies of Epstein-Barr Viral Antigen and Antibody in Rheumatoid Synovial Fluids. *Rheum Int* 3:23-27, 1983.
27. Fritzler MJ, Arlette JP, Behm AR, Kinsella TD. Hereditary Hemorrhagic Telangiectasia versus CREST Syndrome: Can Serology Aid Diagnosis? *J Am Acad Dermatol* 10:192-196, 1984.
28. Fritzler MJ, Ali R, Tan EM. Antibodies from Patients With Mixed Connective Tissue Disease React with Heterogeneous Nuclear Ribonucleoprotein or Ribonucleic Acid (hnRNP-RNA) of the Nuclear Matrix. *J Immunol* 132:1216-1222, 1984.
29. Fritzler MJ, Valencia DW, McCarty GA. Speckled Pattern Antinuclear Antibodies Resembling Anticentromere Antibodies. *Arthritis Rheum* 27:92-96, 1984.

30. Fritzler MJ, Etherington J, Sokoluk C, Kinsella TD, Valencia DW. Antibodies from Patients With Autoimmune Disease React With a Cytoplasmic Antigen in the Golgi Apparatus. *J Immunol.* 132:2904-2908, 1984.
31. McCarty GA, Valencia DW, Fritzler MJ. Antibody to the Mitotic Spindle Apparatus: Immunologic Characteristics and Cytologic Studies. *J Rheumatol* 11:213-218, 1984.
32. Arlette J P, Fritzler M J. Reduced Skin Threshold to Irritation in the Presence of Allergic Contact Dermatitis in the Guinea Pig. *Contact Derm* 11:31-33, 1984.
33. Kinsella TD, Lanteigne C, Fritzler MJ, Lewkonia RM. Absence of Impaired Lymphocyte Transformation to Klebsiella spp. in Ankylosing Spondylitis. *Ann Rheum Dis* 43:590-593, 1984.
34. Ayer LM, Fritzler MJ. Anti-Centromere Antibodies Bind to Trout Testis Histone 1 and a Low-Molecular-Weight Protein From Rabbit Thymus. *Molecular Immunol* 21:761-770, 1984.
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v. Communications (unpublished):

vi. Patient and Physician Education (Writing and Video):

1. Lupus? An 8 page patient education pamphlet written for the Lupus Erythematosus Society of Alberta. 1979
2. Systemic Lupus Erythematosus - A Brighter Tomorrow. (1984) A patient education video-tape. Duration: 40 min. Producer: Susan Skerry - Department of Communications Media, University of Calgary; Content Specialist: Dr. M J Fritzler, Faculty of Medicine, University of Calgary. Presented at Annual Meeting American Rheumatism Association, San Antonio, TX, June 1983 and Annual Lupus Foundation of America Meeting, Washington, DC, July 1983.
3. The Immune Response. (1984) A patient and medical student slide-tape presentation outlining the normal immune response as well as a discussion of abnormalities in autoimmune and immune deficiency syndromes.
4. Geriatric Rheumatology. (1985) A 10 minute tape (cassette) stressing key factors in the presentation and treatment of geriatric rheumatic disease. Produced by Medifacts Canada.
5. The Use of NSAIDs in the Elderly. (1986) A 15 minute cassette tape reviewing the use and hazards of non-steroidal anti-inflammatory drugs in the elderly. Produced by Medifacts Canada.

6. Core Program Chairman: First International Conference on Systemic Lupus Erythematosus. June 25-27, 1986. Calgary, AB.
7. Program Chairman. Western Regional American Rheumatism Association Meeting, Vancouver, BC, November 13-15, 1986.
8. Autoantibodies in Patients with Recurrent Spontaneous Abortion and Unexplained Infertility (1987) A 15-minute cassette tape reviewing the importance of anti-cardiolipin antibodies in patients with recurrent spontaneous abortion. Produced by Medifacts Canada.
9. Dictionary of the Rheumatic Diseases. Volume II: Diagnostic Testing. (1987) J M Decker, J M Esdaile, M J Fritzler, et al. Published by Contact Associates International Ltd., Bayport, NY.
10. The Use of NSAIDs in the Elderly - Part II" Pharmafacts Vol. IV, No. 2. Tape presentation produced by Medifacts Canada. 1988
11. Core Program Chairman: Second Internal Conference on Systemic Lupus Erythematosus. November 1989. Singapore
12. Treatment of Systemic Lupus Erythematosus, Tape presentation sponsored by Winthrop Laboratories and produced by Medifacts, Ltd., 1989
13. LUPUS: Disease in Disguise: 24 min. Video Tape. Produced by American Artists.
14. Alternative Medicine: what about it? Progress in Motion, News and Information Magazine published by the McCaig Center for Joint Injury and Arthritis Research, September 1995.
15. Hormone Replacement Therapy in SLE. Reflections. Publication of the Lupus Erythematosus Society of Alberta. Summer Edition 1999.
16. Laboratory Testing in Scleroderma. Scleroderma Foundation Newsline. 2: 2-27, 1999.
17. I write 6 case histories a year for a quality assurance program provided by ImmunoConcepts Inc., Sacramento, CA. under the title Physicians Services Immunology Testing Service (PSITS).
18. Recent Advances in Research, Lupus Courier, Fall 2005.